



RESEARCH ORIENTATION

September 28, 2023
The Audion, STAR Campus



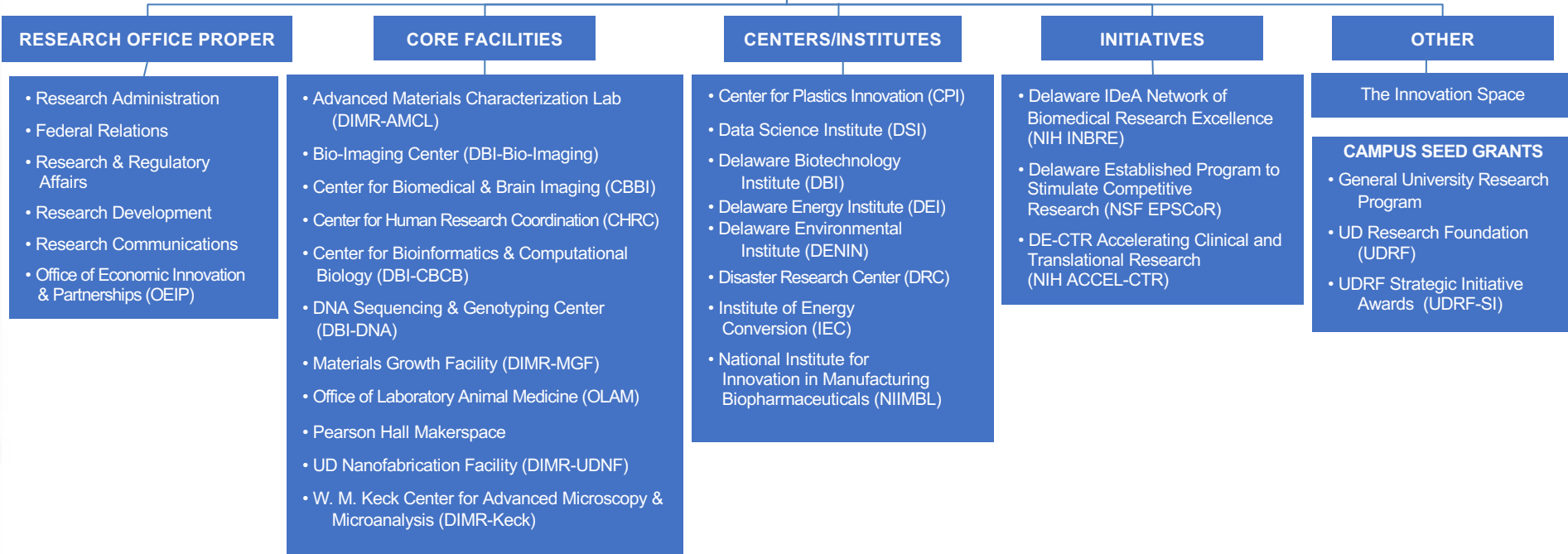
An aerial photograph of the University of Delaware campus, showing a mix of historic brick buildings and modern structures, surrounded by green lawns and trees. A large blue gradient overlay covers the bottom half of the image, where the text is located.

UD — A major research university

- Over 18,800 undergraduate students / 4,450 graduate students / 1,300 faculty
- Among 146 Carnegie Foundation “R1: Doctoral Universities – Very high research activity”
- **Among Top 100** institutions for Federal Science and Engineering Obligations (without our own medical school).
- **74th nationally in total R&D expenditures** (excluding medical school expenditures) — Ahead of 19 AAU institutions, including Brown, Dartmouth, Northwestern, Rice, Stony Brook, University of Chicago and Yale.

INTERNAL Research Office Organization Chart

VICE PRESIDENT FOR RESEARCH, SCHOLARSHIP AND INNOVATION





Research Office Mission

- Advance the University's research enterprise
- Build leading-edge research programs from existing strengths
- Develop new strengths aligned with UD's strategic plan
- Promote the application, impact and awareness of UD research and creative endeavors

Forward and Forever: UD's Strategic Plan



- Expanding student access and success
- Building a social justice foundation to support a diverse, inclusive and intercultural campus
- Expanding interdisciplinary and global opportunities
- Redefining creativity, innovation and entrepreneurship
- Reimagining intellectual and physical capital for a sustainable and boundless campus

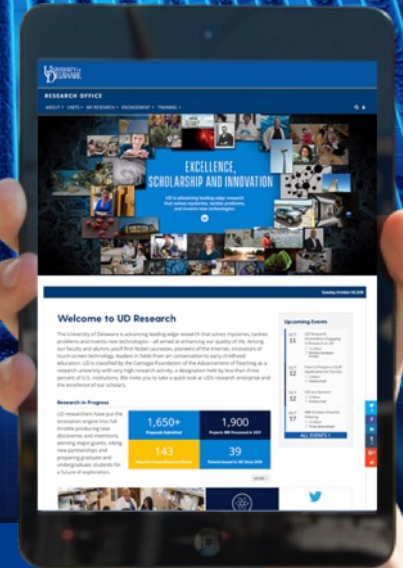
UD — A place for world-class research, scholarship & innovation

Richard Heck,
2010 Nobel
Laureate in
Chemistry



UD launches **Center for Clean Hydrogen** in 2022 to accelerate sustainable energy technology development

Touch-imaging technology was invented at UD and acquired by Apple



UD — A place for world-class research, scholarship & innovation



UD's art conservation students and graduates have preserved numerous irreplaceable objects, from the Declaration of Independence, to works of art by Picasso, to the world's first photograph.

UD scientists built Solar One — the first house to be fully powered and heated by the energy of the sun.

UD is home to the largest biopharmaceutical manufacturing innovation consortium in the world.



UD is now working on the next-generation spacesuit for missions to the moon and Mars.



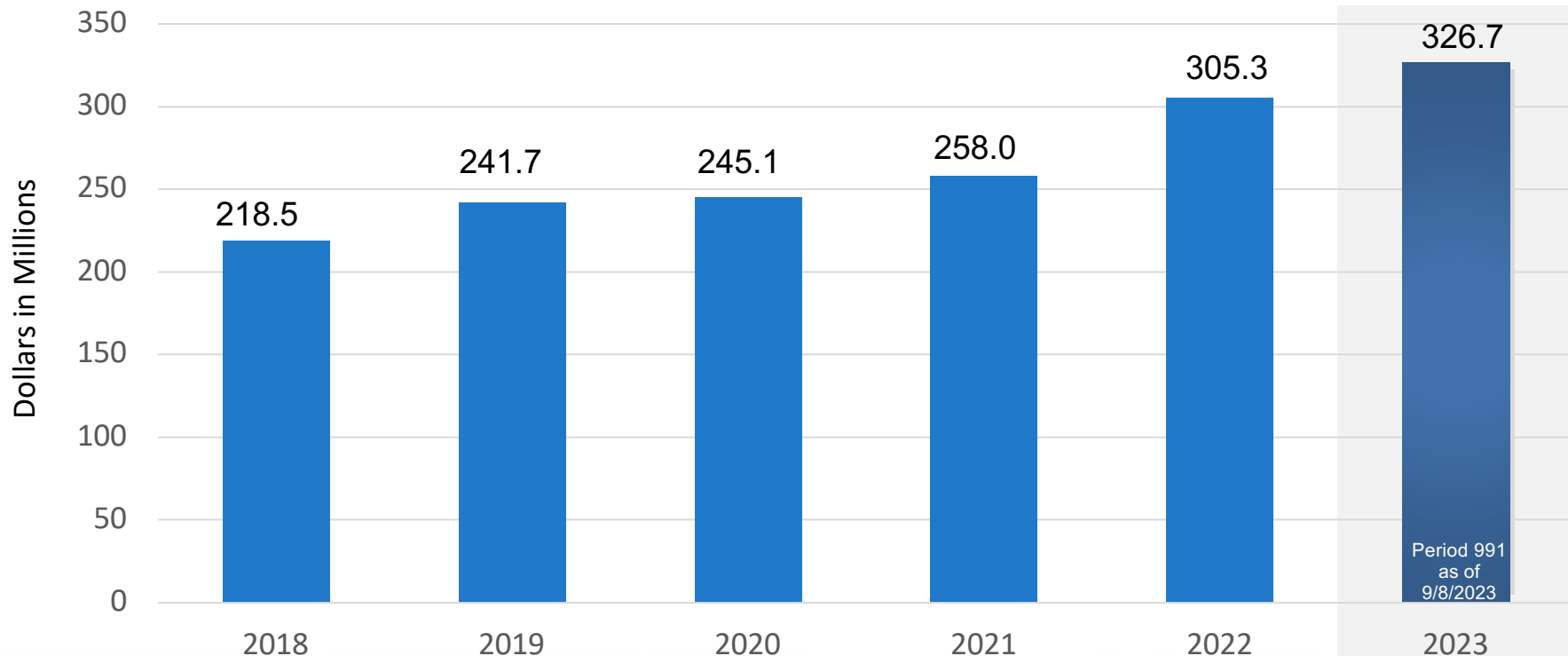
Sponsored Program Expenditures

A FIVE-YEAR REVIEW

Total Sponsored Expenditures

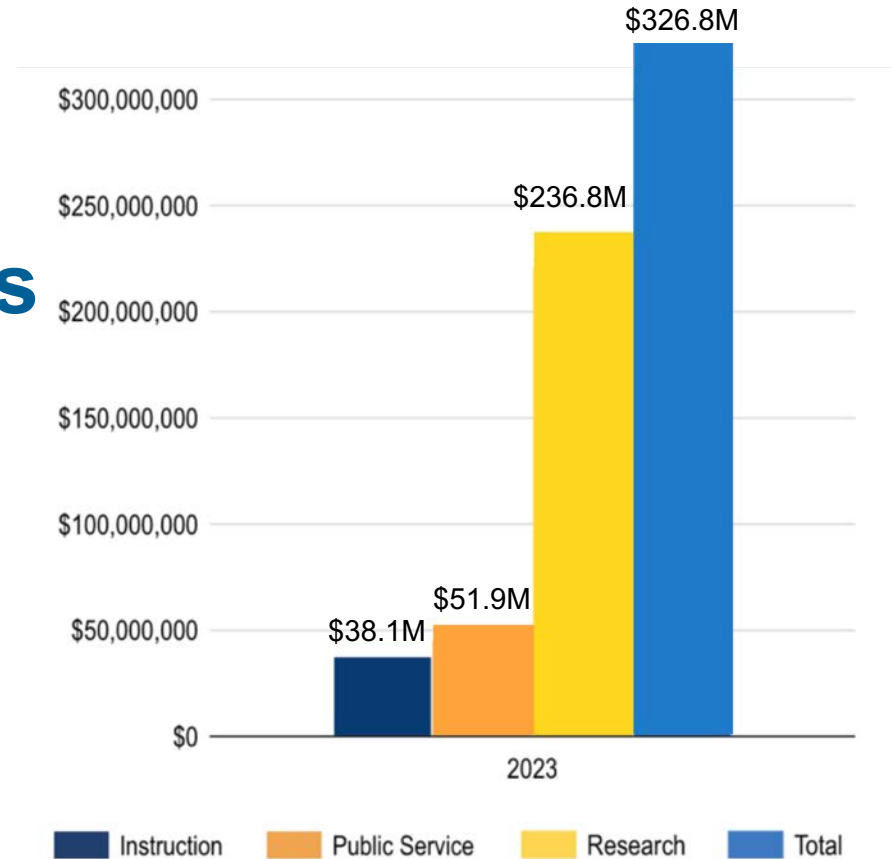
A FIVE-YEAR REVIEW & FY23 PROJECTION

Preliminary FY23 Total
Sponsored Expenditures



FY23 Sponsored Program Expenditures

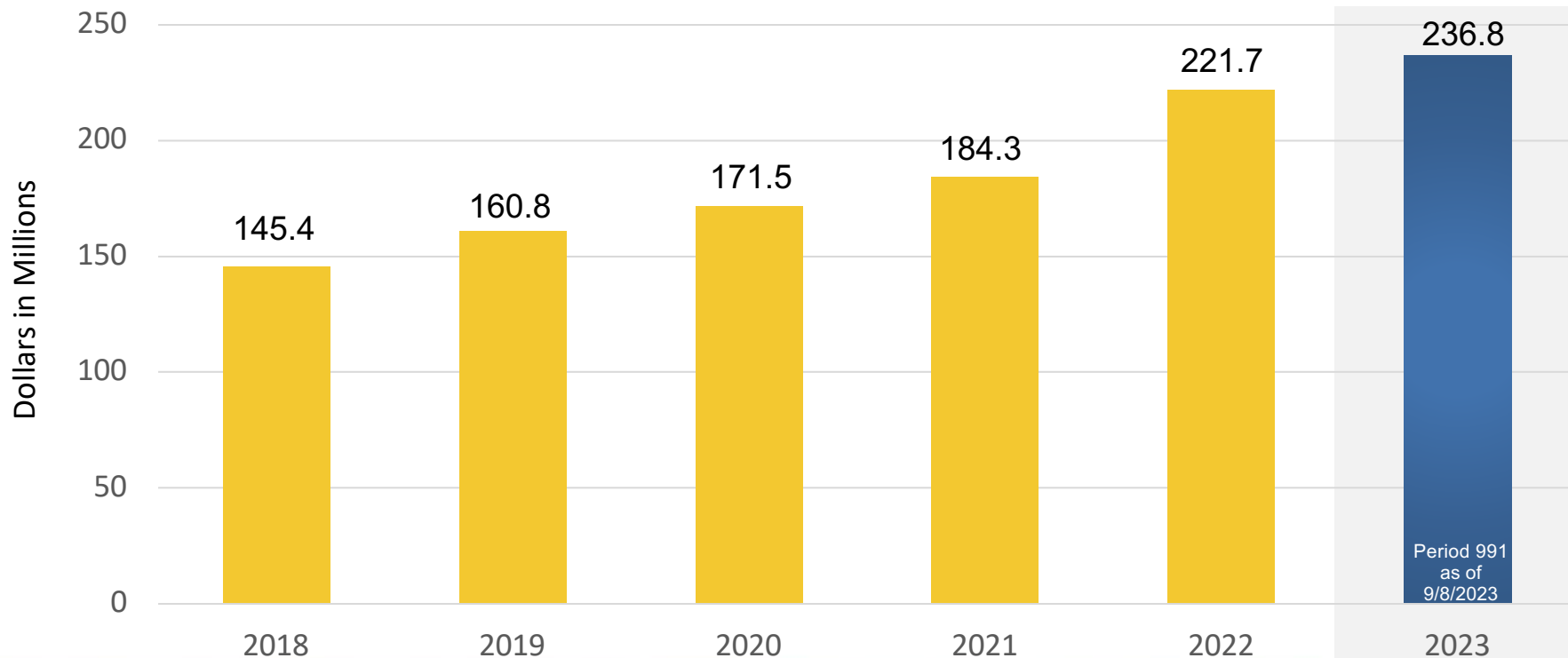
FY23 Total Sponsored Program Expenditures increased 7% over FY22.



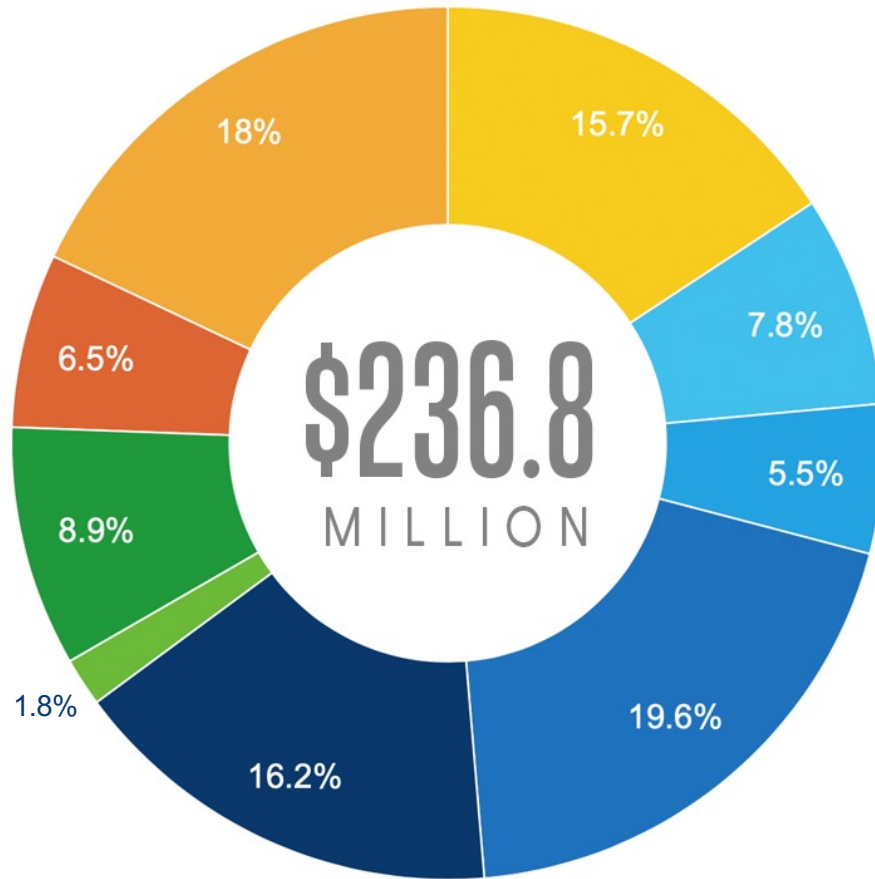
Sponsored Research Expenditures

A FIVE-YEAR REVIEW & FY23 PROJECTION

Preliminary FY23 Total
Sponsored Expenditures



FY23 Sponsored Research Expenditures



- 15.7% Department of Commerce
- 7.8% Department of Defense
- 5.5% Department of Energy
- 19.6% Health and Human Services
- 16.2% National Science Foundation
- 1.8% Other
- 8.9% Other Federal
- 6.5% State of Delaware
- 18.0% Federal Flow-Through

* Preliminary FY23 Total Sponsored Expenditures provided in period 991 report



Delaware CTR-ACCEL Program
receives \$19.6M renewal



NIIMBL advances research,
workforce initiatives

UNIVERSITY OF DELAWARE
BIDEN SCHOOL OF PUBLIC
POLICY & ADMINISTRATION
STAVROS NIARCHOS FOUNDATION
TEACHA INITIATIVE

\$3M awarded for civil
discourse program

UNIVERSITY OF DELAWARE

RESEARCH

F Y 2 3 H I G H L I G H T S



Jing Gao,
1 of 4 new
NSF CAREER
Award winners

James M. Jones, Anthony M. Kossiakoff
elected to National Academy of Sciences



Amy Slocum appointed
Delaware EPSCoR director



FinTech Innovation
Hub opens

**FINTECH
INNOVATION
HUB**



A Few Facts from FY23

1,477
Proposals
Submitted

703
New Awards
Received

\$389 Million
Total New
Awards

2,126
Active
Awards

\$2.5 Billion
Requested in
Funding

1,789 IRB
Submissions
Processed

119 Animal
Protocols

43 Material
Transfer
Agreements

5,920 Effort
Certification
Reports

A photograph of a large, historic building at the University of Delaware at night. The building is illuminated with warm yellow lights, highlighting its arched entrance and a central dome. The scene is framed by dark silhouettes of trees in the foreground. The sky is a deep blue with some light clouds.

Leading Institutes

- **Center for Plastics Innovation (CPI)**
- **Data Science Institute (DSI)**
- **Delaware Biotechnology Institute (DBI)**
- **Delaware Energy Institute (DEI)**
- **Delaware Environmental Institute (DENIN)**
- **Disaster Research Center (DRC)**
- **Institute of Energy Conversion (IEC)**
- **National Institute for Innovation in Manufacturing Biopharmaceuticals (NIIMBL)**

Research Excellence

- **Faculty of excellence:** Members of National Academy of Sciences; National Academy of Education; National Academy of Engineering; National Academy of Inventors. More than 70 recipients of NSF CAREER awards since 2000.
- **Major grants from NSF, NIH, NEH, Departments of Defense, Energy, Commerce:** Environmental Science and Policy (\$25 Million); Biomedical Research Infrastructure (\$25M); Clinical Translational Research (\$20M); Biopharmaceutical Manufacturing Innovation (\$430M); Materials Discovery (\$18M), Plastics Innovation (\$12M).

Seed Funding and Limited Submissions



General University Funds

UD Research Foundation

Limited Submissions ListServ

<https://research.udel.edu/research-development/funding-opportunities/>

IDeA and EPSCoR



DelawareINBRE
Delaware's Biomedical Research Catalyst



World-Class Facilities

“Building X,” under construction along East Delaware Avenue, will be a science collider for psychology, neuroscience, biology, physics and quantum science.

The FinTech Innovation Hub, a public-private partnership, is focusing on making financial systems work better, more securely and more equitably for all.



STAR CAMPUS

It's a bold idea, an inspiring vision, growing ever-brighter as a nexus for discovery, education and business through public-private partnerships.

At the University of Delaware's Science, Technology and Advanced Research Campus we're combining top academics and research, with industry and community partnerships. Together, we're turning new knowledge into positive impact for the world.

Explore Our World!





Thank you!

For more information, contact:

Kelvin H. Lee, Interim VPR for Research, Scholarship and Innovation: vpr@udel.edu

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Jeffrey Friedland, AVP Research Administration: jeffreyf@udel.edu

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Eric Wommack, SAVP for Research: wommack@udel.edu

UD RESEARCH ORIENTATION

ENGAGING IN RESEARCH AT UD

Welcoming Remarks

Kelvin Lee, *UD Interim Vice President for Research, Scholarship & Innovation*

Research Office Overview

Research Administration
Research and Regulatory Affairs
Research Communications
Office of Economic Innovation and Partnerships
Research Development

IDeA Programs & EPSCoR

Research Mentoring

Undergraduate Research

Campus Resource Introductions

UD RESEARCH ORIENTATION

ENGAGING IN RESEARCH AT UD



UNIVERSITY OF DELAWARE
RESEARCH OFFICE

Jeff Friedland: Associate Vice President, Research Administration

Proposal Award Lifecycle

Project Development & Funding:

- Principal Investigator (PI)
- Collaborating Investigator(s)
- Mentor(s)
- Program Director
- University RDO
- University Library
- University Corporate & Foundation Relations

Award Closeout:

- College/Department Grants Analyst
- Principal Investigator (PI)
- RO Sponsored Research Accountant

1

2

Proposal Preparation:

- College/Department Grants Analyst
- Principal Investigator (PI)
- RO Contract & Grants Specialist
- Collaborating institution(s)
- Research Communications

3

Award Negotiation & Setup:

- College/Department Grants Analyst
- Principal Investigator (PI)
- RO Contract & Grants Specialist
- Subaward Specialist
- Sponsor
- Office of Economic Innovation & Partnerships - OEIP

4

Award Management:

- College/Department Grants Analyst
- Principal Investigator (PI)
- RO Contract & Grants Specialist
- RO Sponsored Research Accountant
- Research Compliance Office
- University Procurement
- OEIP

5

Research Administration – Pre-Award Services

Role of a Contract & Grants Specialist (C&G)

Proposal Submission

- Review proposal prior to submission
- UD/Sponsor Compliance
- UD Approvals
- Submit proposals
- Submit post submission materials (ex: revised budgets)
- Authorized Representatives

Award Negotiation/Set- up

- Review award terms/conditions
- Negotiate terms/conditions, as needed
- Ensure certifications are in place (IRB/IACUC/rDNA)
- Issue subawards
- Set up awards with purpose codes in UD Financials (PeopleSoft)
- Authorized Representatives

Post-Award

- Answer award questions
- Review terms/conditions
- Secure sponsor approvals:
 - Rebudgets
 - No Cost Extensions
 - Change of Scope
 - Change of PI
- Authorized Representative

Assistant Directors

Katie Brown, brownkt@udel.edu

Laura Paller, lpaller@udel.edu

Susan Tompkins, sdt@udel.edu

Research Administration – Post-Award Services

Roles of Post-Award Team

Research Accountant

- Review and submit financial reports
- Manage award closeouts
- Audit expenditure balance & activity to ensure allowability
- Assist with internal and external audits
- Provide guidance and interpretation of regulations and policies

Billing and Receivables

- Review award terms/conditions
- Set up billing and payment terms in UD Financials (PeopleSoft)
- Submit invoices and drawdown letter of credit payments
- Manage collections activities and follow up on aged receivables

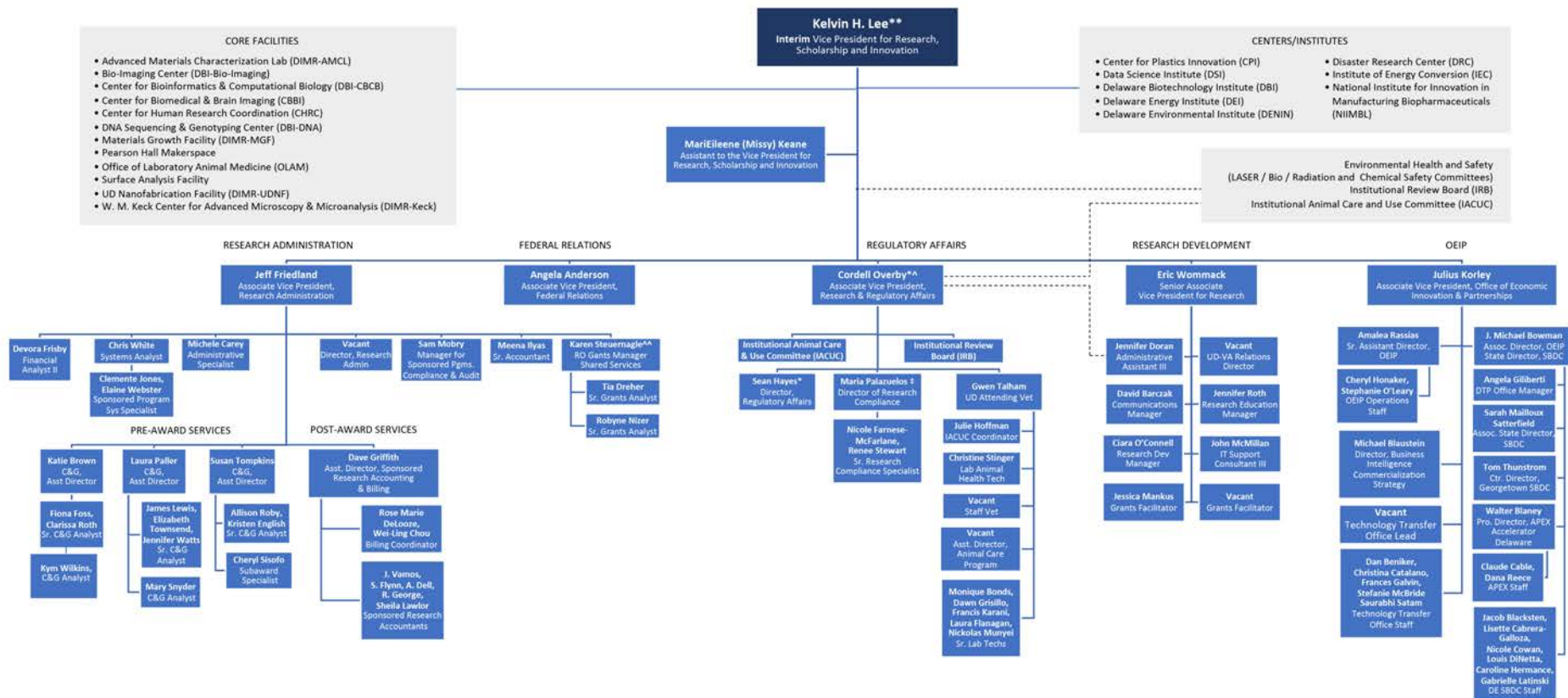
Financial Compliance

- Initiate effort certification process
- Verify data within effort certification submission in compliance with UD policy
- Manage single audit and respond to audit inquiries
- Review salary and fringe

Assistant Director

Dave Griffith, daveg@udel.edu

Research Office Organization Chart



Non-Financial Research Compliance



Research Office - Regulatory Affairs:

Cordell Overby, Sc.D.

Assoc. VP for Res. & Regulatory Affairs
overbyc@udel.edu

Sean Hayes, Ph.D., J.D.

Director of Res. Regulatory Affairs
hayes&@udel.edu

Maria Palazuelos, Ph.D.

Director of Res. Compliance
mariapj@udel.edu

Gwen Talham, D.V.M.

Attending Veterinarian
gtalham@udel.edu

Environmental Health & Safety:

Krista Murray

Director
klmurray@udel.edu



RESEARCH COMMUNICATIONS

Increasing UD's visibility as a research powerhouse

MEET THE TEAM



Tracey Bryant
OCM Senior Director for
Research Communications



Beth Miller
OCM
Science Writer



Karen Roberts
OCM
Science Writer



David Barczak
Research Office
Communications Manager

Our mission is central to the University's mission

We help carry out UD's

“commitment to increasing and disseminating scientific, humanistic, artistic and social knowledge for the benefit of the larger society.”

EXCERPT FROM UNIVERSITY OF DELAWARE MISSION STATEMENT



UNIVERSITY OF DELAWARE MOTTO

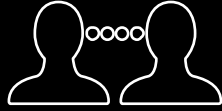


MAJOR GOAL:

Elevate UD's visibility as a top research institution

MANY IMPACTS:

- Boost faculty/ student recruitment
- Attract research partners and funding
- Increase public literacy about complex topics



When should you reach out to us?

- Your article **has been accepted** by a peer-reviewed journal
- You've won a grant, patent, award
- You've been contacted to do a media interview
- You want to write an op-ed
- You'll be doing fieldwork in a cool place
- You have great photos/video to share



85%


of Americans are
interested in
following news
about science

Pew Research Center 

Getting your research highlighted on UDaily & beyond

UDAILY

CAMPUS & COMMUNITY | **RESEARCH** | NATION & WORLD | CULTURE



Professor Jessica Tanis and doctoral student Andy Lam examine tiny worms (*C. elegans*) under the microscope for signs of Alzheimer's disease.

VITAMIN B12 AND ALZHEIMER'S

Article by Tracey Bryant | Photos by Kathy F. Atkinson, Tanis Lab and UD Bio-Imaging Center | Photo illustration by Jeffrey Chase | September 28, 2021

A UD study with worms provides intriguing results

Worms don't wiggle when they have Alzheimer's disease. Yet something helped worms with the disease hold onto their wiggles in Professor Jessica Tanis's lab at the University of Delaware.

EurekAlert! | AAAS

SEARCH ARCHIVE | ADVANCED SEARCH

HOME | NEWS RELEASES | MULTIMEDIA | MEETINGS | MY DASHBOARD | UPDATE PROFILE | LOGOUT

NEWS RELEASE 29-SEP-2021

Wiggling worms suggest link between vitamin B12 and Alzheimer's

University of Delaware research yields new clues into potential impact of diet on Alzheimer's

Peer-Reviewed Publication
UNIVERSITY OF DELAWARE

Media Contact
Peter Kerwin
University of Delaware
pgkerwin@udel.edu
Office: 302-509-5327

More on this News Release

Wiggling worms suggest link between vitamin B12 and Alzheimer's
UNIVERSITY OF DELAWARE

JOURNAL
Cell Reports

KEYWORDS
ALZHEIMER DISEASE | WORMS
VITAMIN B12 | PARALYSIS

ORIGINAL SOURCE
<https://www.udel.edu/udaily/2021/sepember/vitamin-b12-alzheimers->

Worms don't wiggle when they have Alzheimer's disease. Yet something helped worms with the disease hold onto their wiggle in Professor Jessica Tanis's lab at the University of Delaware.

In solving the mystery, Tanis and her team have yielded new clues into the potential impact of diet on Alzheimer's, the dreaded degenerative brain disease afflicting more than 6 million Americans.

A few years ago, Tanis and her team began investigating factors affecting the onset and progression of Alzheimer's disease. They were doing genetic research

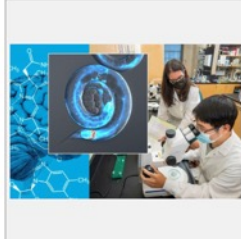
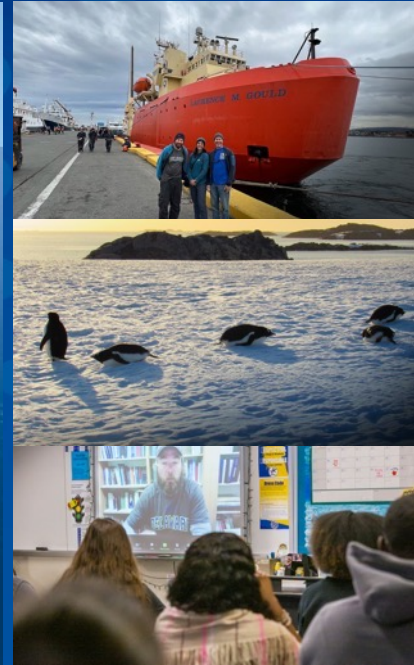


IMAGE: PROFESSOR JESSICA TANIS AND DOCTORAL STUDENT ANDY LAM EXAMINE TINY WORMS (*C. ELEGANS*) UNDER THE MICROSCOPE

Engaging the public in exploration





GRADUATE STUDENTS

ON THE FRONT EDGE OF DISCOVERY



Graduate education is a powerful catalyst, promoting change in individuals, industries and institutions. And the students pursuing these advanced degrees bring their own indispensable power to every discipline — fresh perspectives, new questions and partnerships that add depth and dimension to our understanding of the world.

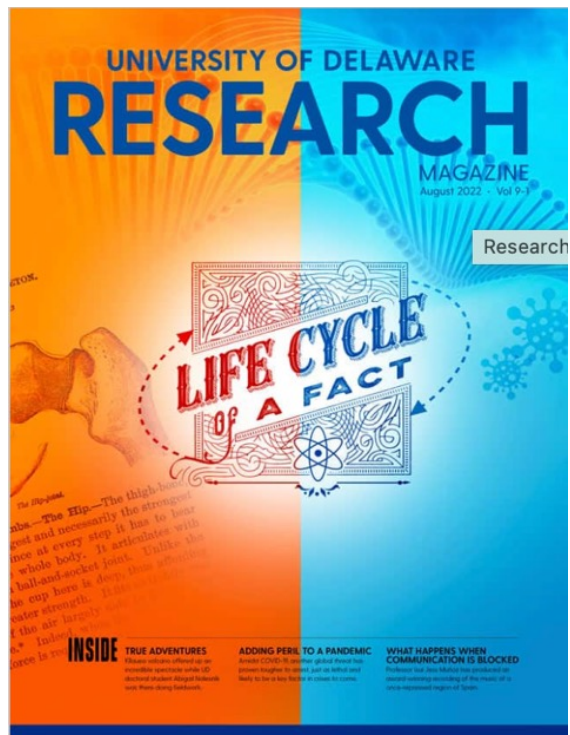
[Learn more](#)



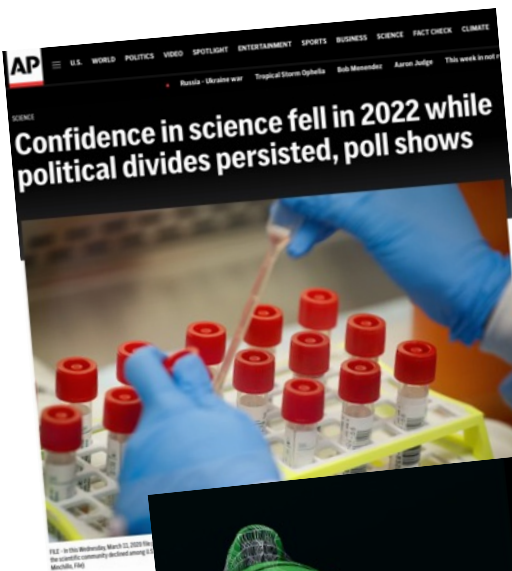
RESEARCH MAGAZINE

ISSUE IMPACTS

- Graduate student posting his story to social media (Instagram, Facebook, LinkedIn) received more than 1,000 views on each platform
- New faculty research collaborations
- Media interest by NHK World-Japan, Scripps Television, Jewish Historical Society of Delaware, Delaware First Media



What's at stake?



REPORT | FEBRUARY 15, 2022

Americans' Trust in Scientists, Other Groups Declines

Disrupted

AI threatens humanity's future, 61% of Americans say: Reuters/Ipsos poll

By Anna Tong

May 17, 2023 2:32 PM EDT · Updated 4 months ago



For most people, the new economics of higher ed make going to college a risky bet.



COMMUNICATIONS TRAINING FOR UD RESEARCHERS

PROGRAM COMING IN 2024!

- Strengthen your ability to connect with public audiences
- Boost public understanding and appreciation of the value of research and its positive impact on our lives
- Provide professional development for graduate students and postdocs, preparing them for future careers
- Elevate UD's visibility as a trusted source of information

Funded by a grant from the Unidel Foundation, Inc.

TAKE OUR
SURVEY BY

OCT 16

The image shows a digital survey form titled "COMMUNICATIONS TRAINING FOR UD RESEARCHERS RESEARCHER COMMUNICATIONS SURVEY". At the top, it features the University of Delaware logo and a navigation bar with links: ABOUT US, UNITS, MY RESEARCH, ENGAGEMENT, TRAINING, and COVID-19. The main heading is "Your Opinion Matters". Below this, a paragraph states: "The UD Research Office needs your input on a new initiative, funded by the Unidel Foundation, to help researchers enhance their skills in communicating with the public." Another paragraph follows: "Many of you have expressed keen interest in this and now — in collaboration with the Office of Communications and Marketing and partners across campus — we are establishing a program for UD researchers, including faculty, postdoctoral fellows and graduate students. It will start in 2024 and will include online and in-person offerings." A third paragraph says: "Please take this survey by **September 15** to share what matters most to you. The survey should take only about five minutes to complete. Thank you!" A final paragraph notes: "Participation in this survey is completely voluntary. Survey data may be used in future research. All identifying information will be removed from any responses used in future research studies." To the right, a box titled "CAMPUS PARTNERS" lists: Center for Science, Ethics and Public Policy; Department of Communication; Graduate College; IT - Academic Technology Services; Office of Communications and Marketing; Office of the Provost; and Research Office. At the bottom, a section titled "CONSENT TO PARTICIPATE IN A RESEARCH STUDY" includes the title "Researcher Communications Survey" and the principal investigator "Paul Brewer". It also contains a "PURPOSE" statement: "The Research Office, in collaboration with the Office of Communications and Marketing (OCM) and the Provost's Office, seeks to establish a communications training program for UD faculty, graduate students and postdocs that will strengthen their ability to connect with public audiences and foster greater understanding of the value of UD research and its role in the community." The form includes a progress bar at the top with six steps, the first of which is labeled "Number 1". A "Next" button is visible at the end of the progress bar.



FOLLOW US ON X
@UDResearch

Thank you!

For more information, contact:

Tracey Bryant
Sr. Director, Research Communications
tbryant@udel.edu OR udresearch@udel.edu

Research Development

Eric Wommack, Senior Associate Vice President for Research

- Provide services that maximize research, creative and scholarly activities of faculty & staff. Advance the UD research enterprise through sponsored programs activities.
- Multifaceted goals: PI education & development, research communications, opportunity management, grant facilitation, strategic partnering
- Overcome disciplinary and administrative barriers by working with central Univ. offices, Colleges, OEIP, CFR, Institutes & Centers, Depts., Core Facilities and others.

Ciara O'Connell

Research Development Manager



- Primary **point of contact** for Research Development activities
- Strategic & active management of programs & services
 - Coordinate RDT proposal development efforts
 - Provide **project management** for large-scale, multi-disciplinary and/or multi-institutional proposals
 - Develop & execute Univ. **Seed Grant programs** (UDRF, GUR, & Chemours)
 - Coordinate **Limited Submission competitions** (50+ calls per year)
- Serve a liaison with other UD units including Office of Economic and Innovation Partnership (OEIP), Corporate & Foundation Relations (CFR), Research RO Administration, Provost and President offices, and College leadership.
- Facilitate **institutional commitment requests & cost-share** process

Jessica Mankus

Grant Facilitator



- Provide detailed proposal development assistance including:
 - **Project management** through all stages of proposal development and refinement
 - Establishing an **understanding of proposal requirements**, agency mission and **culture**, and program objectives
 - Editing proposals with specific focus on the **narrative & summary** sections, and **supplemental documents** (Facilities, Data Management, PDR Mentoring Plan)
- Assist in addressing the **sponsor's "impact areas"** such as K-12 education, workforce development, stakeholder impacts, diversity, equity, inclusion and accessibility, and others.
- Coordinating timely **workflow** of proposal preparation & submission.

Jenn Roth



Research Education Manager

- Develop & coordinate **seminars, conferences, workshops & symposia** (RCR Training, RO Workshop Series)
- Manage programmatic logistics & content for PI professional development (**NIH & NSF CAREER Academies**)
- Manage **external consultants**
- Oversee implementation & execution of **research learning tools & technology**

Dave Barczak



Research Communication Manager

- Creation, coordination & distribution of **Research e-Newsletter**; design digital edition of **UD Research Magazine**
- Provide client support, consult and training for **research-related web services**
- Provide **graphic & presentation support** for major proposal endeavors (by request & with VPR approval)

Research Office Events Fall 2023

DATE	EVENT
October 12 th 12:00-1:30	NIH 101 Workshop
October 26 th 12:00-1:30	NSF 101 Workshop
November 9 th 10:00-4:00	Broader Impacts*
November 30 12:00-1:30	DOE 101 Workshop
December 14 12:00-1:30	USDA 101 Workshop

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Kelvin Lee, UD Interim Vice President for Research, Scholarship & Innovation

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Research Development

IDEA Programs & EPSCoR

Melinda Duncan – *Associate Vice President for Research & Principal Investigator, Delaware INBRE*

Amy Slocum – *Director, Delaware EPSCoR*

Research Mentoring

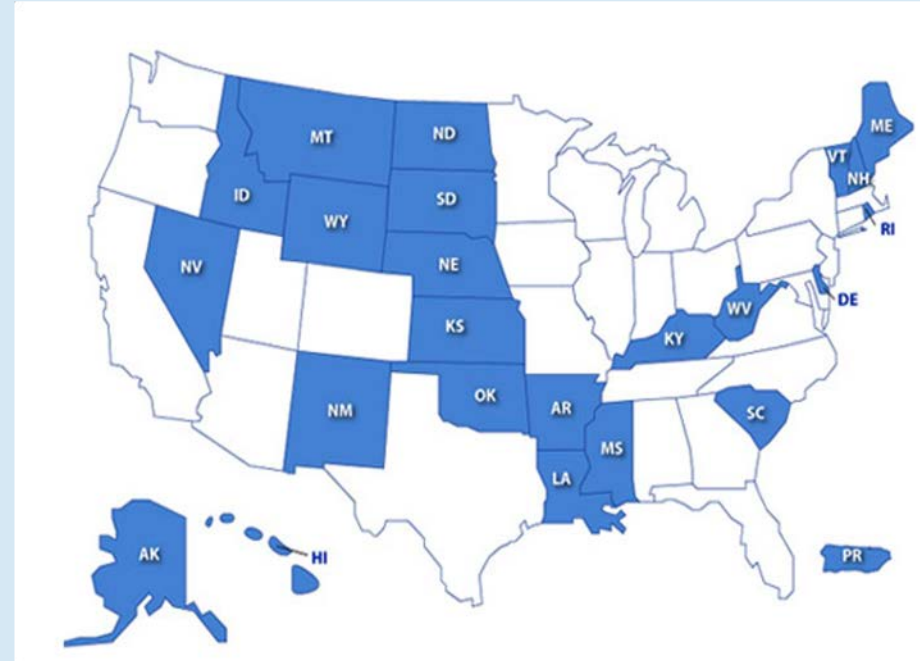
Undergraduate Research

Campus Resource Introductions

What is the IDeA Program?

The **I**nstitutional **D**evelopment **A**ward Program is a Congressionally mandated program funded by the National Institutes of Health designed to **build research capacity** in states that have historically had low levels of NIH funding

Funds faculty research, research core facilities, professional development and student training/workforce development depending on mechanism



IDeA funding mechanisms active in Delaware

IDeA Network of Biomedical Research Excellence (INBRE)

Faculty research, core facilities, data science, and undergraduate research experiences/education for **ALL** scientific disciplines within NIH's scope

IDeA Clinical and Translational Research Programs (CTR)

Faculty research and core facilities relevant to all research along the clinical/translational spectrum (pre-clinical to implementation of research within communities). Most funded research **MUST** have a clinical component

IDeA States Pediatric Clinical Trials Network (ISPCTN)

Consortium to increase pediatric clinical trials in IDeA states

IDeA States Regional Entrepreneurship Development (I-RED)

UD/company partnership to develop educational materials/programs to educate IDeA state researchers in entrepreneurship opportunities

Centers for Biomedical Research Excellence

Fund faculty research/mentoring and core facilities in a particular research area

Discovery of Chemical Probes and Therapeutic Leads COBRE at UD

Delaware Center for Neuroscience Research at DSU

The Delaware Comprehensive Sickle Cell Research Center at Nemours

Center of Biomedical Research Excellence in Cardiovascular Health at UD

Research Expanding Access to Child Health (REACH) at Nemours

Delaware Center for Musculoskeletal Research at UD

IDeA co-funding of R awards

If a grant misses an institute payline but your program officer wants to fund you...

Can nominate you for “IDeA co-funding” where NIGMS/IDeA will fund the grant for up to 375K/year for two years if the nominating institute can pick up the rest of the funding.

Can be helpful, two such awards are active in Delaware, but this is not where most IDeA funding goes...

What is DE-INBRE?

DelawareINBRE
Delaware's Biomedical Research Catalyst • de-inbre.org



Our Mission:

- Delaware INBRE supports state-of-the-art research **core facilities**, investigator-driven basic/translational biomedical **research projects**, and **student** biomedical research internships across the First State.
- These activities train the workforce needed for Delaware's non-profit, academic and industrial researchers to discover ways to improve the health of Delawareans while increasing the competitiveness of Delaware's investigators for federal biomedical research funding.

DE-INBRE Opportunities



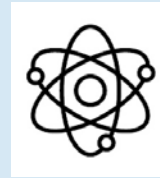
Support for undergraduate students to work on your research via the **Student research program**

Most funding is for paid 10 week summer internships but some academic year support is available for low income students



Vouchers to access Research Core Facilities

Currently open for applications, are reviewed every two weeks until this year's funding is given out



Pilot study funding via our **Developmental Research Pilot Project (DRPP) Program**

Next letter of Intent due October 2nd, not too late to send one in as these DON'T need to go through the UD grants system



Other research development support
INBRE and CTR co-support: the Junior investigators network (JIN), weekly professional development meetings

The NIH academy: intensive grant writing education/mentoring for NIH grant success

More information?

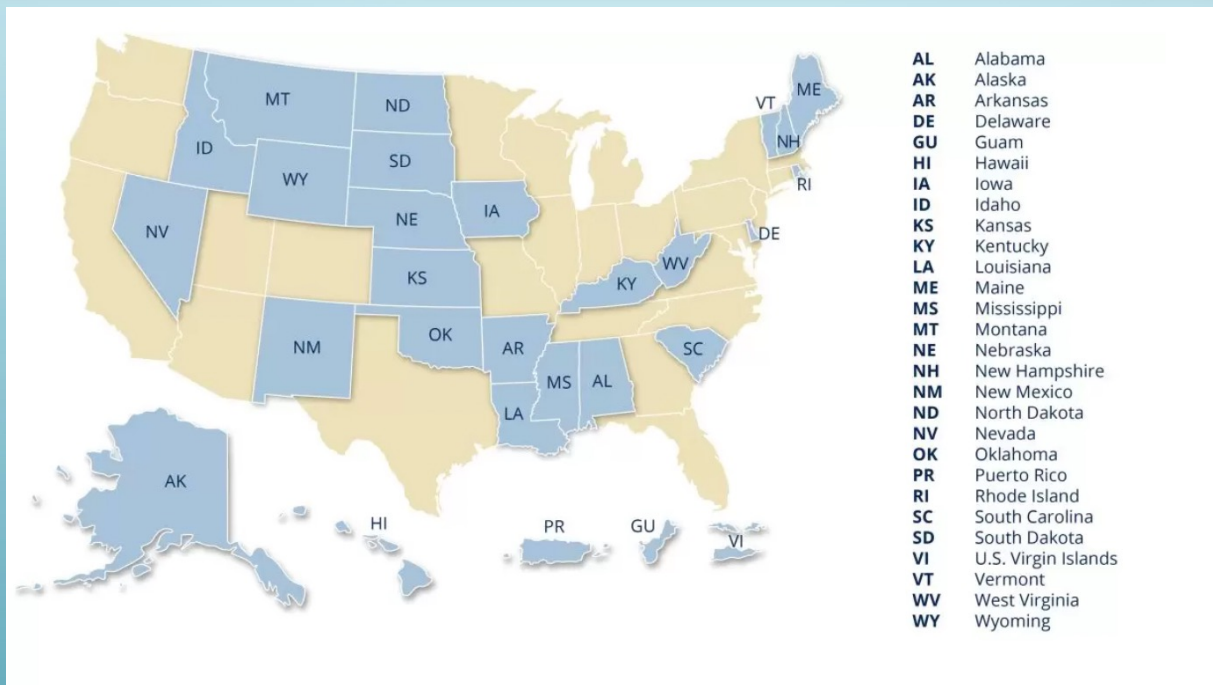
Stop by our table to learn more about the IDeA programs or visit the program websites for more information!

- DE-INBRE Website: <https://de-inbre.org/>
- DE CTR ACCEL Website: <https://www.de-ctr.org/>
- DE ISPCTN Website: <https://echochildren.org/idea-states-pediatric-clinical-trials-network/ispctn-delaware-meet-our-team/>
- DE I-RED Information: <https://www.udel.edu/udaily/2023/august/supporting-biomedical-entrepreneurs-economic-innovation-partnerships/>
- IDeA Co-Funding Information: <https://nigms.nih.gov/Research/DRCB/IDeA/Pages/IDeA-Co-funding.aspx>

Amy Slocum, Ed.D.
Director, Delaware EPSCoR
Research Orientation
September 2023



EPSCoR Jurisdictions



- States and territories awarded less than 0.75% of NSF funding



EPSCoR Goals



CATALYZE

EDUCATE

BROADEN
PARTICIPATION

ENGAGE

IMPACT OVER
TIME



EPSCoR Impact



Strategic intent: Develop a competitive research capability

2003 - NSF EPSCoR eligible
 2005 - NSF RII-1 (Broad biotech/environmental focus)
 2008 - NSF RII-2 (Focused environmental theme)
 2013 - NSF RII-3 (Environmental focus/alternative energy)
 2018 - NSF RII-4 (Water in a Changing Coastal Environment)
 2011 - NSF C2 (NorthEast Cyberinfrastructure Consortium)
 NSF Track 2 FEC: (1) Water monitoring 2013; (2) Neuroscience 2016; (3) Phenome to Genome 2017
 NSF Track 4: (1) Remote Sensing 2018; (2) Soil Science 2017; (3) Materials Science 2019; (4) Physics 2018
 NSF BEC: Brain and Behavior 2022



Capacity Building:



EPSCoR Investments have catalyzed an additional 293 NSF awards:

\$88.5M - 198 research awards
 \$19.0M - 7 center awards
 \$16.0M - 43 education awards
 \$10.0M - 27 CAREER awards
 \$ 4.0M - 8 equipment awards
 \$ 1.5M - 10 innovation awards

Faculty Growth (23 out 25 are still in Delaware)



Harsh Bais
Plant-Microbe Interactions

Jennifer Biddle
Environmental Microbiology

Clara Chan
Geomicrobiology

Kelly Davidson
Behavioral/Experimental Economics

Thomas Epps
Chemical Engineering

Jing Gao
Geospatial Data Science

Yao Hu
Agent Based Modeling

Deb Jaisi
Surface Geochemistry

Xinqiao Jia
Materials Sciences

Venu Kalavacharla
Plant Molecular Biology

Chris Kloxin
Materials Sciences

Hong Li
Aerosol Science

Christina McGranaghan
Behavioral/Experimental Economics



Pinki Mondal
Remote Sensing

John Newberg
Aerosol Chemistry

Andrea Pierce
Environmental Policy

Tom Powers
Philosophy

Angella Seyffert
Biogeochemistry

Tomasz Smolinski
Bioinformatics

Stephanie Stotts
Environmental Science

Rodrigo Vargas
Soil Science

Carolyn Voter
Hydrologic Modeling

Josh Wang
Environmental Chemistry

Cathy Wu
Bioinformatics

Yanfeng Yue
Chemist

Economic Development

- 75 patents
- 17 new products
- 5 new businesses



What EPSCoR Status Means for You?



1. NSF EPSCoR Co-Funding
2. Red Team Reviews/Proposal development support
3. Support for research activities (interns, travel, & supplies)
4. Connection to broader EPSCoR Communities (local/national)
5. Connection to mentors and potential collaborators/partners



Useful NSF Resources

- NSF Webpage: [NSF.gov](https://www.nsf.gov)
- NSF Broadening Participation in STEM:
www.nsf.gov/broadeningparticipation/
- NSF Funding Opportunities: <https://new.nsf.gov/funding/opportunities>
- NSF Toolkit: www.nsf.gov/about/congress/toolkit.jsp
- Customizable NSF Alerts:
<https://service.govdelivery.com/accounts/USNSF/subscriber/new>
- ProSPCT: Program Suitability & Proposal Concept Tool:
<https://suitability.nsf.gov/s/>
- NSF Staff Directory: www.nst.9ov1statt1
- NSF Advisory Committees:
www.nsf.gov/about/performance/dir_advisory.jsp

Questions?

Email: als@udel.edu

Phone: 302-345-5409



UD RESEARCH ORIENTATION

ENGAGING IN RESEARCH AT UD

Welcoming Remarks

Kelvin Lee, *UD Interim Vice President for Research, Scholarship & Innovation*

Research Office Overview

Research Administration
Research and Regulatory Affairs
Research Communications
Office of Economic Innovation and Partnerships
Research Development

IDeA Programs & EPSCoR

Research Mentoring

Louis Rossi – *Dean, Graduate College*

LaRuth McAfee– *Senior Assistant Dean, Graduate College*

Undergraduate Research

Campus Resource Introductions

Research Mentoring

Lou Rossi and LaRuth McAfee
Graduate College
28 September 2023

The Graduate College supports graduate and postdoctoral research in many ways

- **Mentor training**
- **iThenticate - discussions around plagiarism**
- Direct fellowship funding
- Graduate student travel
- Research communication training, preparation and opportunities

Graduate College Research Mentorship Initiative

Mentorship Symposium - Thursday, September 28th, 2pm-5pm with reception 5pm-7pm

- Highlights - UD mentoring award recipient panel, keynote by national mentoring expert

Culturally Aware Mentor (CAM) Workshop - Fridays, September 29th and October 6th, 9am-1pm each day

- Focus on mentoring people of different backgrounds, esp. racially/ethnically

General research mentor training - Fridays, October 20th and 27th, 9am-1pm each day

- Core topics covered - effective communication, expectation alignment, mentoring action plans

Contact LaRuth McAfee (mcafee@udel.edu) about these or future mentorship events.

UD Research Mentor Training Series

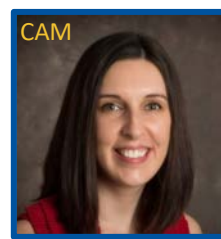
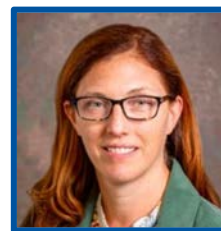
Topics to be covered:

- Maintaining Effective Communication
- Addressing Equity and Inclusion
- Aligning Expectations
- Fostering Independence
- Promoting Professional Development
- Mentoring Action Plan

55 faculty participated last year,
representing 34 campus units!

Contact LaRuth McAfee (mcafee@udel.edu) about future training events. Upcoming: late October, early January, and Spring 2024 (dates TBD).

Facilitators from various disciplinary
backgrounds

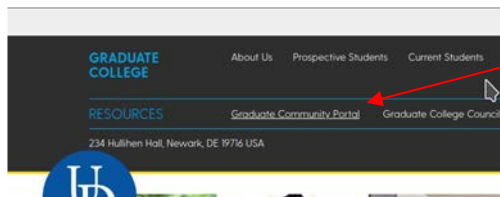


Proactive advising: iThenticate for theses, ALPs and manuscripts

A recording will be hosted on their site. It's linked from our community portal (bottom of web page).

Answer to a common question: It just provides data that may lead to a conversation. It does not arrive at a conclusion.

Based on conversations during and after training, most faculty want their own accounts and plan to use it early in the drafting process. We have enough licenses to support that need.



Program
Registration

iThenticate Training
– Oct. 22 2021

Market Research for
New or Current

UD Capture Space link to iThenticate training for University of Delaware that was offered on October 22, 2021.

Link to Graduate College market research request form.

Students, Training

[Link](#)

Marketing and
Communications

[Link](#)

Questions?



UD RESEARCH ORIENTATION

ENGAGING IN RESEARCH AT UD

Welcoming Remarks

Kelvin Lee, *UD Interim Vice President for Research, Scholarship & Innovation*

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Undergraduate Research

Katherine Feldkamp – *Graduate Assistant, Undergraduate Research Program*

Campus Resource Introductions

Undergraduate Research Office

- **UDRAW** (UD Research Apprenticeship Work-Study, beginning of fall and spring)
- **Winter Fellows** (application will open late fall)
- **Summer Scholars** (application open Jan. 3 to early March)
- **Summer Fellows** (application open April – closes two weeks after opening)
- **McNair Scholars** (application currently open)
- **Senior Thesis** (recruit students at beginning of fall or spring semester)



180 S. College Ave.

Undergraduate Research and McNair Scholars Programs

<https://www.urp.udel.edu/>

Dr. Rosalie Rolón-Dow, Faculty Director
rosa@udel.edu

Dr. Lauren Barsky, Associate Director
lbarsky@udel.edu

undergradresearch@udel.edu



UD RESEARCH ORIENTATION

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Campus Resource Introductions

Paige Morgan – *Library Support, Research Data Management & Federal Public Access Mandate*
Scott Mangieri – *Senior Director, Corporate & Foundation Relations*



Corporate & Foundation Relations

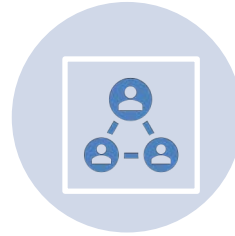
WHAT IS CFR?



Central point of contact



Establishes **new** and enhances **existing** relationships



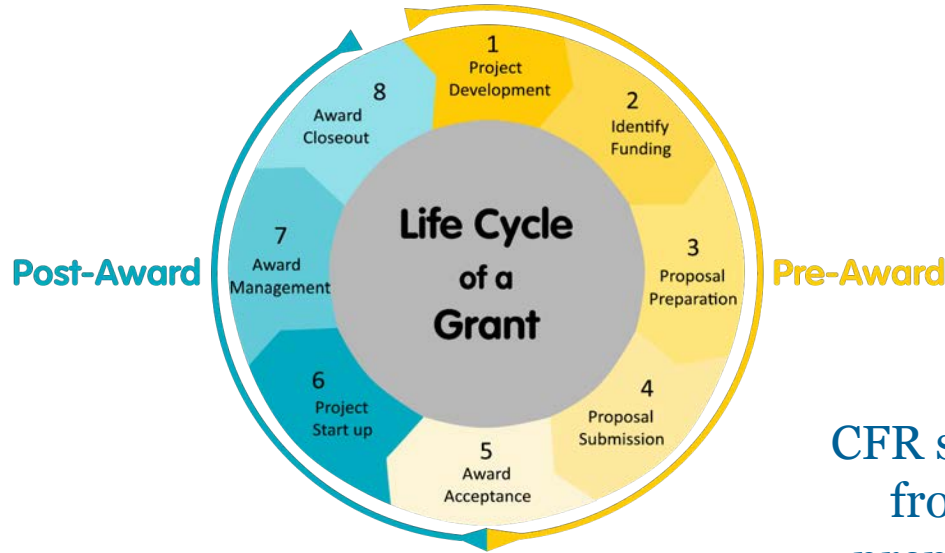
Matches corporations/ foundations to **faculty and resources**



Works closely with other units on campus



WHEN CAN CFR HELP?



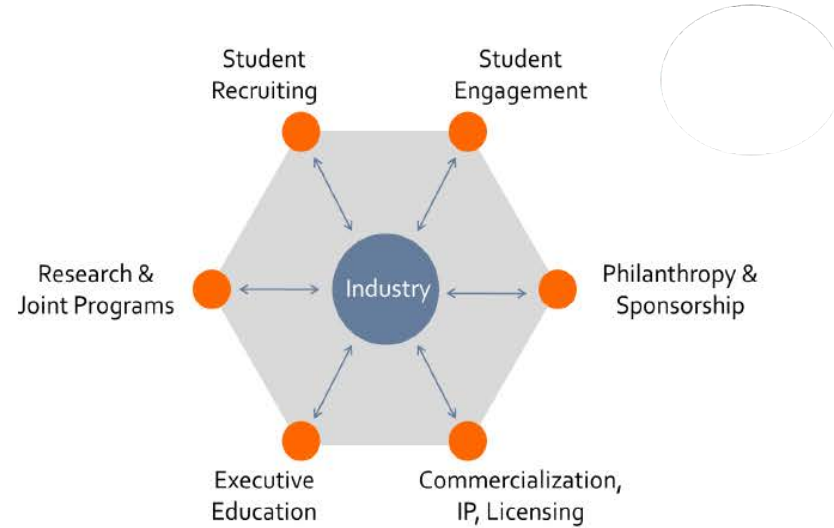
CFR supports **all** aspects of the award lifecycle, from prospect identification and proposal preparation through award management and stewardship (reporting).

WHAT INDUSTRY PARTNERS WANT?

Industry partners seek connection with **remarkable talent** and **resources** here at UD.

Career Services, Research, Professional & Continuing Education, OEIP, and Development are the core entry points for interface with industry.

Corporations **INVEST** in higher education—they don't simply donate money—they seek **mutually beneficial partnerships**.



PARTNERS & PROSPECTS

JPMorganChase



W. M. KECK FOUNDATION



THE ANNIE E. CASEY
FOUNDATION



LONGWOOD *foundation*

THE
ANDREW W.
MELLON
FOUNDATION



Chemours™

ExxonMobil



LUCE HENRY
LUCE
FOUNDATION

HIGHMARK®





AARON MOSZER

Director of Corporate &
Foundation Relations

✉ amoszer@udel.edu

☎ 302-831-0270



SCOTT MANGIERI

Director of Corporate &
Foundation Relations

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☎ 302-831-8638

Corporate Lead

Lerner College of Business

College of Engineering

College of Earth, Ocean & Environment

College of Agriculture & Natural Resources

Athletics

Horn Entrepreneurship

Foundation Lead

College of Arts & Sciences

College of Education & Human Development

Biden School of Public Policy

Graduate College

Honors College

Diversity Initiatives & Student Life





Thank you!

For more information, contact:

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Tracey Bryant, SD Research Communications: tbryant@udel.edu

Jeffrey Friedland, AVP Research Administration: jeffreyf@udel.edu

Cordell Overby, AVP Regulatory Affairs: overbyc@udel.edu

Eric Wommack, SAVP for Research: wommack@udel.edu